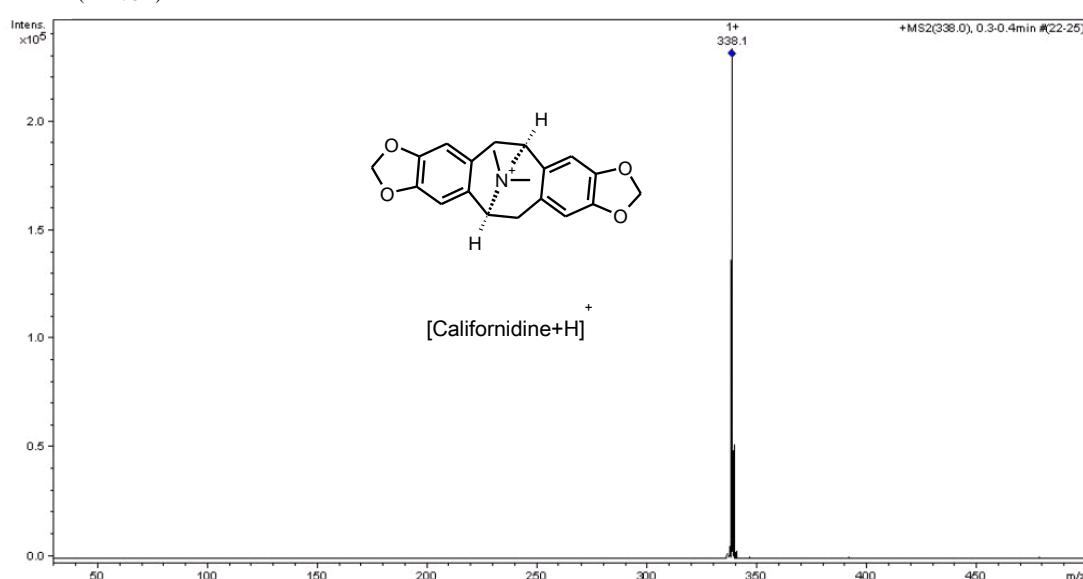


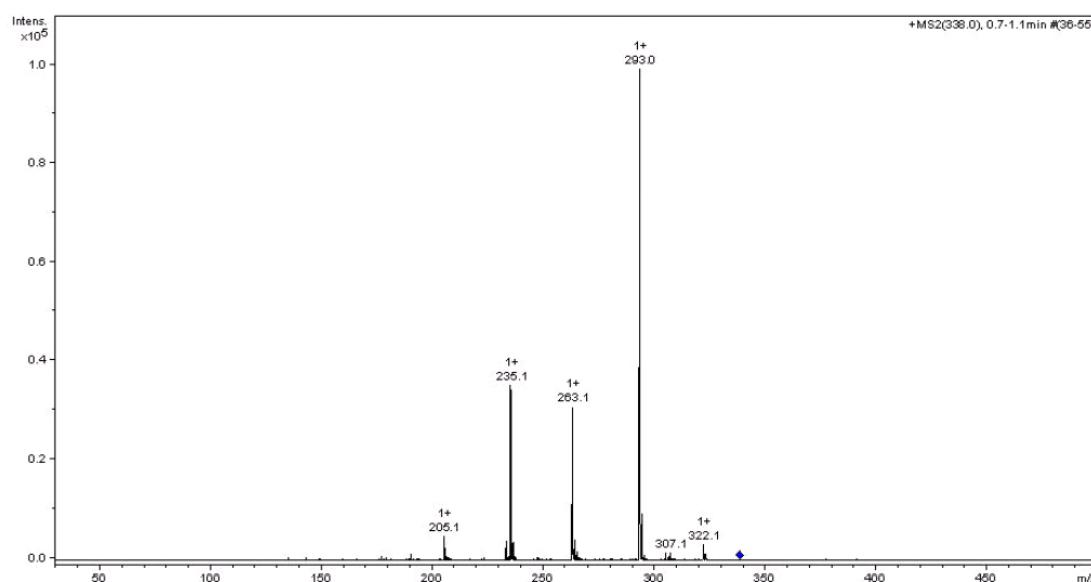
Figure S1. ESI trace (a) and tandem MS/MS fragmentation pattern (b-c) for (S)-Reticuline detected in the “NMT fraction” isolated from *E. californica* (see the main text).

(in MeOH)

Instrument: BRUKER - Ion Trap MS esquire HC



a)

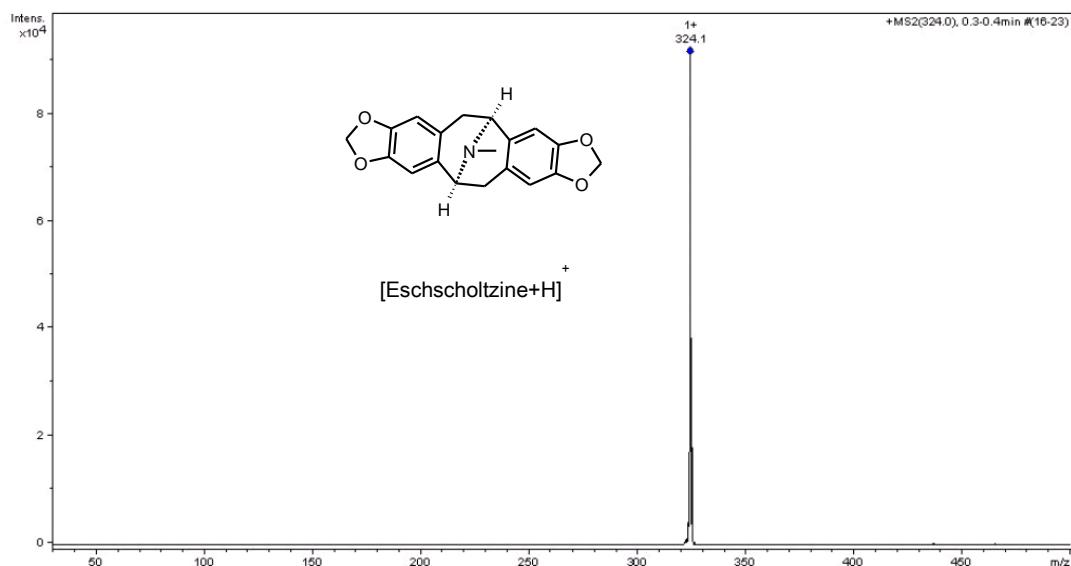


b)

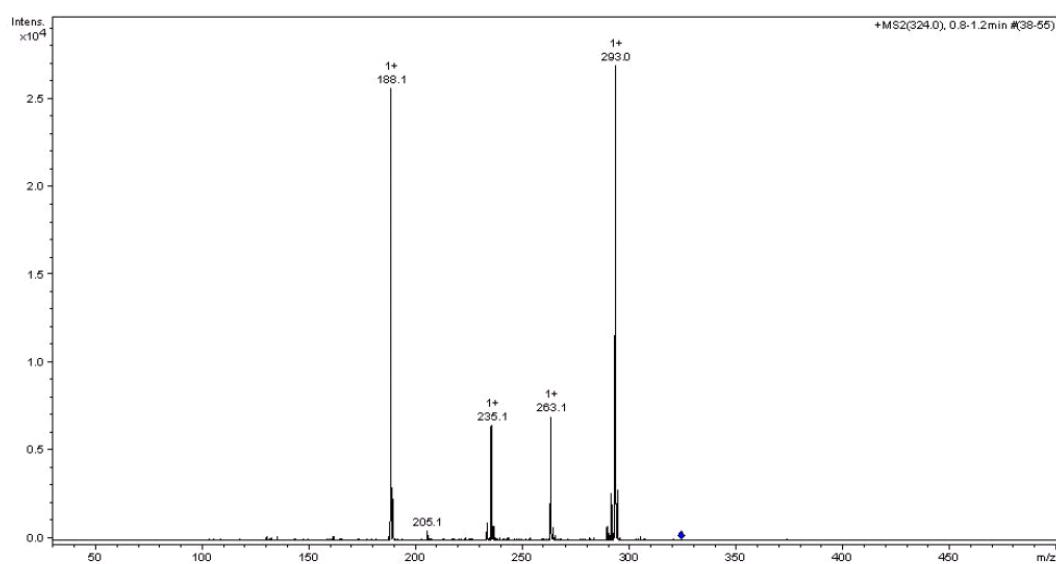
Figure S2. ESI trace (a) and tandem MS/MS fragmentation pattern (b) for Californidine isolated from *E. californica*, Arcopharma, no. AMM 57426001 (Method A).

(in MeOH)

Instrument: BRUKER - Ion Trap MS esquire HC



a)

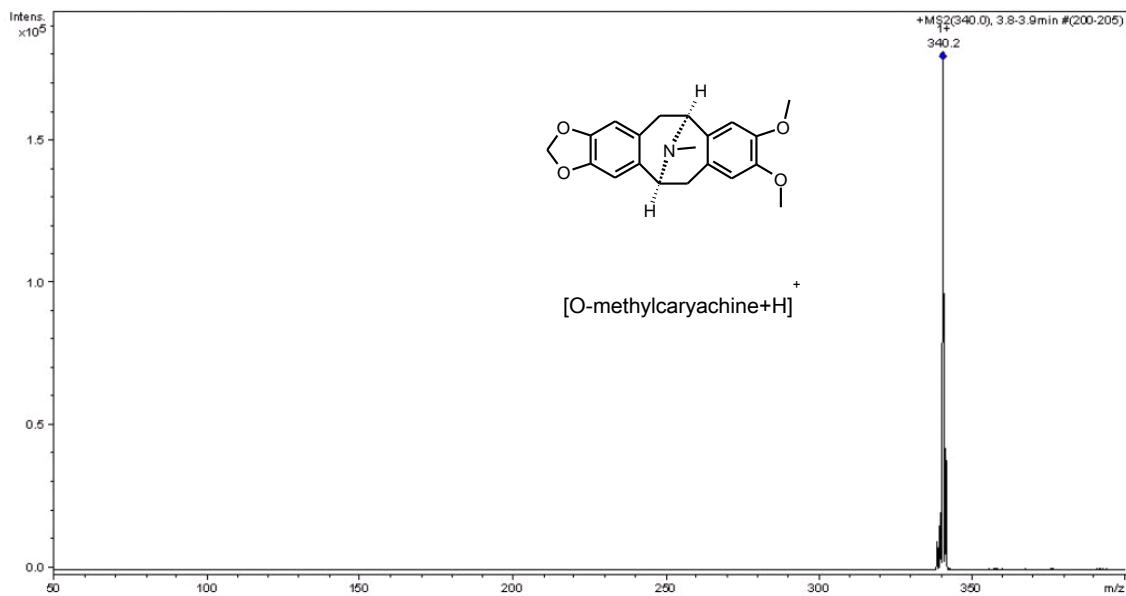


b)

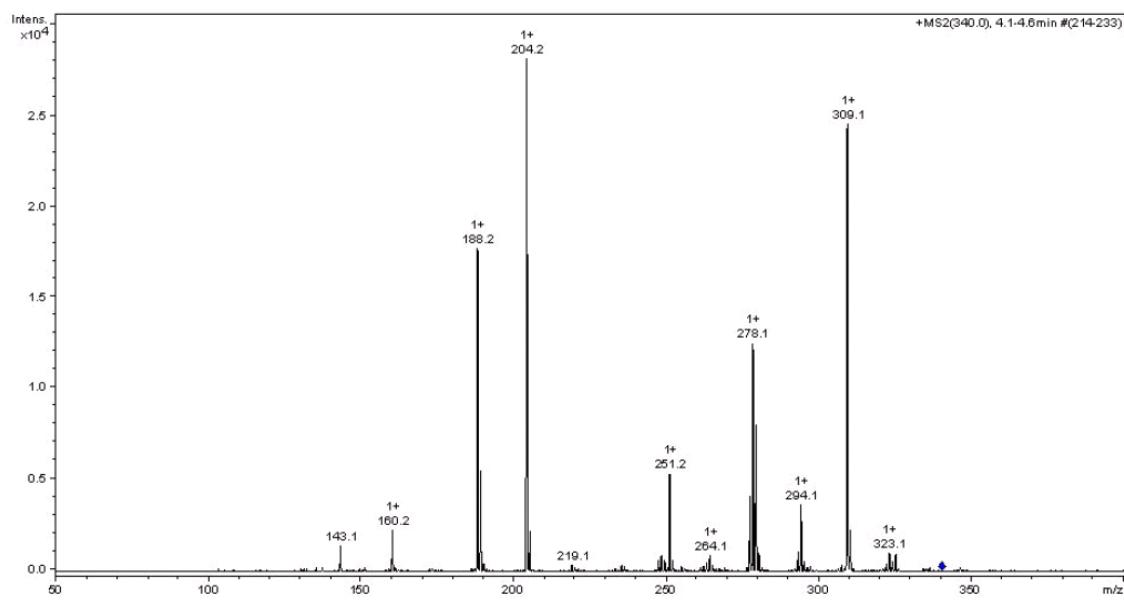
Figure S3. ESI trace (a) and tandem MS/MS fragmentation pattern (b) for Eschscholtzine isolated from *E. californica*, Arcopharma, no. AMM 57426001 (Method A).

(in MeOH)

Instrument: BRUKER - Ion Trap MS esquire HC



a)

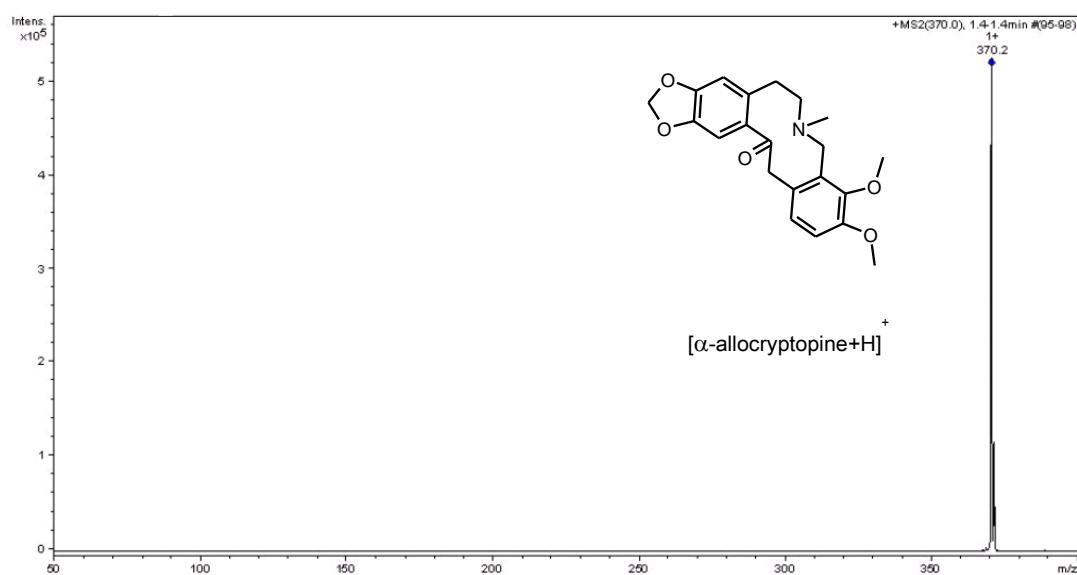


b)

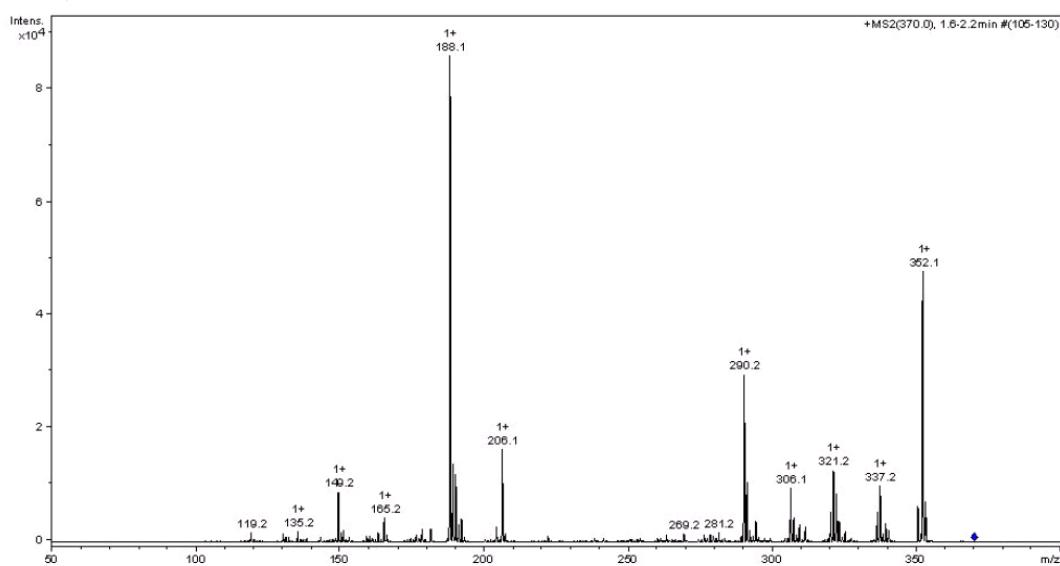
Figure S4. ESI trace (a) and tandem MS/MS fragmentation pattern (b) for *O*-methylcaryachine isolated from *E. californica*, Arcopharma, no. AMM 57426001 (Method A).

(in MeOH)

Instrument: BRUKER - Ion Trap MS esquire HC



a)

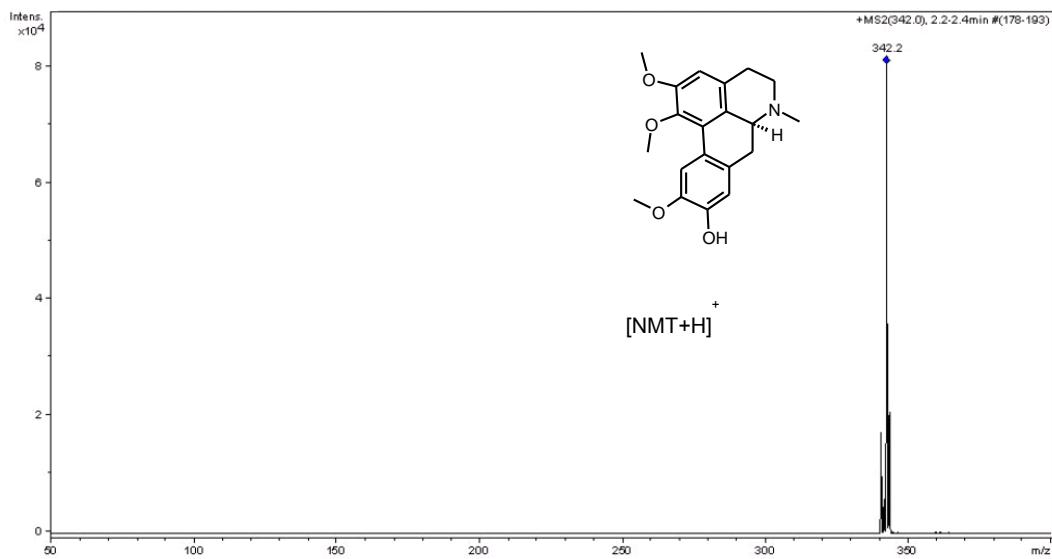


b)

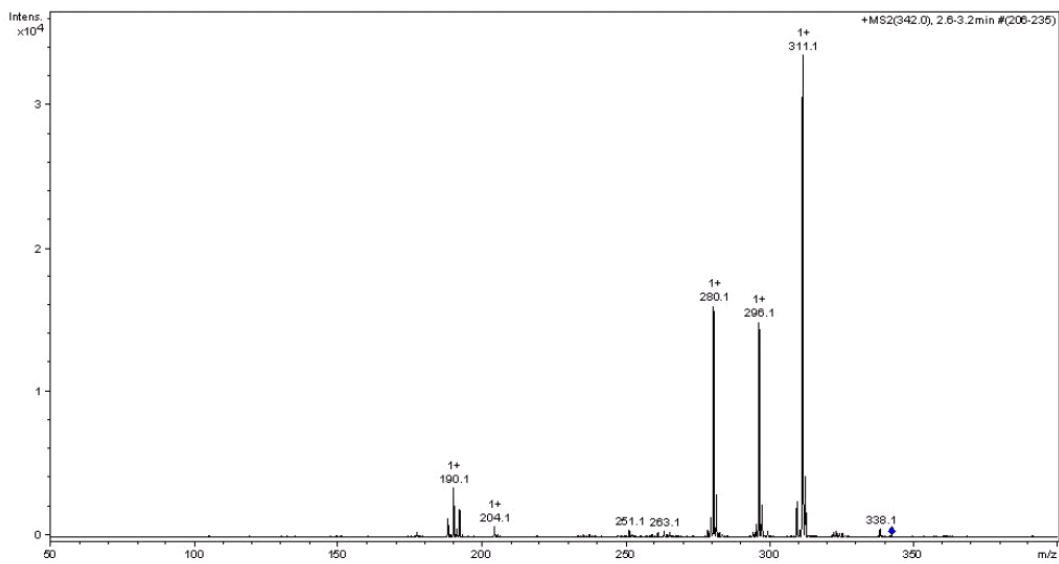
Figure S5. ESI trace (a) and tandem MS/MS fragmentation pattern (b) for α -allocryptopine isolated from *E. californica*, Arcopharma, no. AMM 57426001 (Method A).

(in MeOH)

Instrument: BRUKER - Ion Trap MS esquire HC



a)

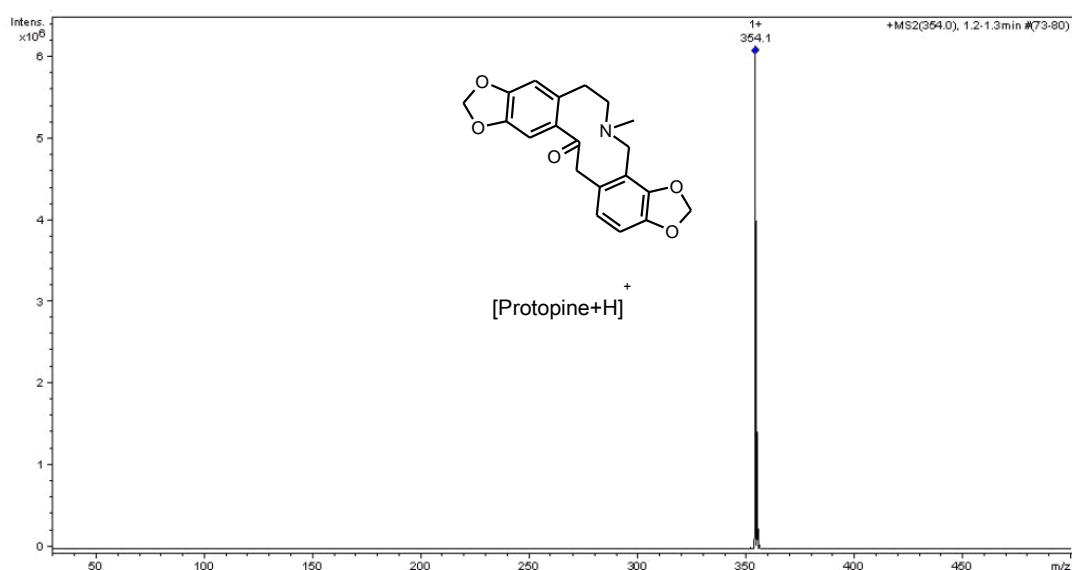


b)

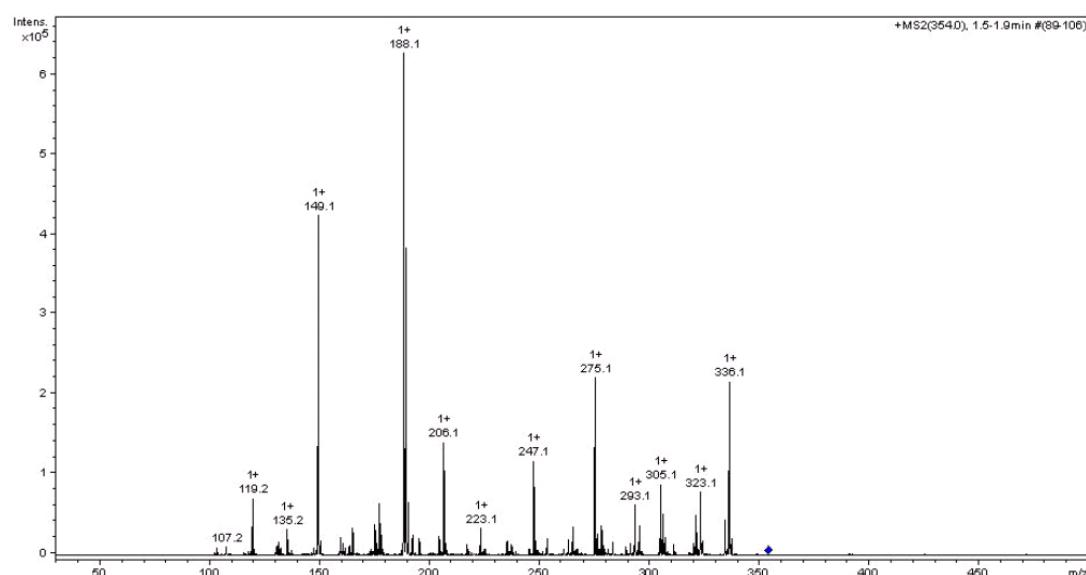
Figure S6. ESI trace (a) and tandem MS/MS fragmentation pattern (b) for *N*-methyllaurotetanine isolated from *E. californica*, Arcopharma, no. AMM 57426001 (Method A).

(in MeOH)

Instrument: BRUKER - Ion Trap MS esquire HC



a)

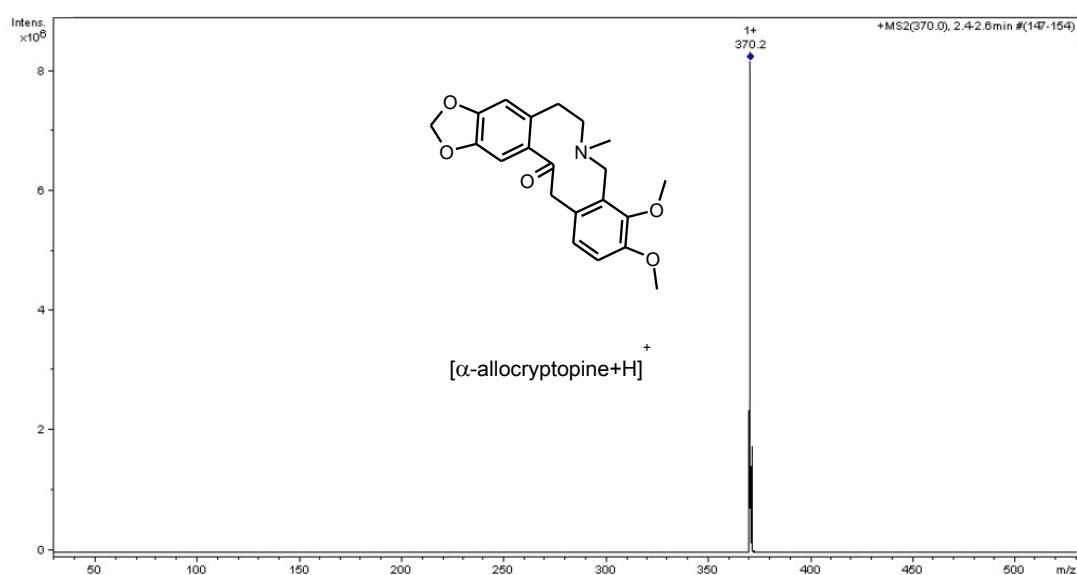


b)

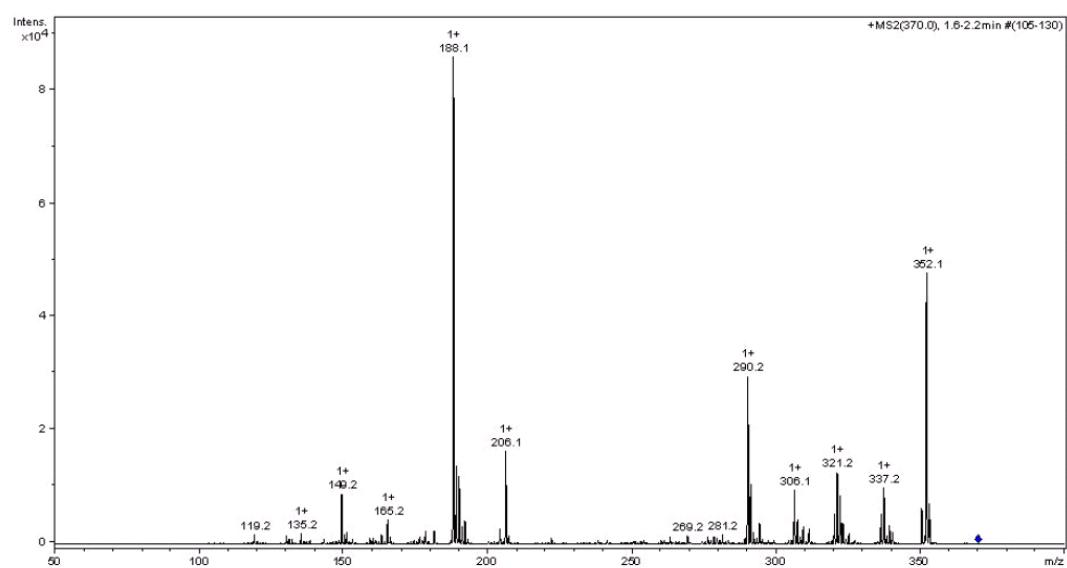
Figure S7. ESI trace (a) and MS/MS fragmentation pattern (b) for the commercial Protopine sample obtained from Sigma (product number: P8489).

(in MeOH)

Instrument: BRUKER - Ion Trap MS esquire HC



a)



b)

Figure S8. ESI trace (a) and MS/MS fragmentation pattern (b) for the commercial α -allocryptopine obtained from Aldrich (product number: S450987).